



16743-004001.ST25

SEQUENCE LISTING

<110> Liao, You-Di

<120> Removal of N-terminal Methionine From Proteins by  
Engineered Methionine Aminopeptidase

<130> 16743-004001

<140> US 10/813,549

<141> 2004-03-29

<160> 21

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 264

<212> PRT

<213> Escherichia coli

<400> 1

Met	Ala	Ile	Ser	Ile	Lys	Thr	Pro	Glu	Asp	Ile	Glu	Lys	Met	Arg	Val
1				5				10						15	
Ala	Gly	Arg	Leu	Ala	Ala	Glu	Val	Leu	Glu	Met	Ile	Glu	Pro	Tyr	Val
			20					25					30		
Lys	Pro	Gly	Val	Ser	Thr	Gly	Glu	Leu	Asp	Arg	Ile	Cys	Asn	Asp	Tyr
		35					40					45			
Ile	Val	Asn	Glu	Gln	His	Ala	Val	Ser	Ala	Cys	Leu	Gly	Tyr	His	Gly
	50					55					60				
Tyr	Pro	Lys	Ser	Val	Cys	Ile	Ser	Ile	Asn	Glu	Val	Val	Cys	His	Gly
65					70				75					80	
Ile	Pro	Asp	Asp	Ala	Lys	Leu	Leu	Lys	Asp	Gly	Asp	Ile	Val	Asn	Ile
				85					90					95	
Asp	Val	Thr	Val	Ile	Lys	Asp	Gly	Phe	His	Gly	Asp	Thr	Ser	Lys	Met
			100					105					110		
Phe	Ile	Val	Gly	Lys	Pro	Thr	Ile	Met	Gly	Glu	Arg	Leu	Cys	Arg	Ile
		115					120					125			
Thr	Gln	Glu	Ser	Leu	Tyr	Leu	Ala	Leu	Arg	Met	Val	Lys	Pro	Gly	Ile
	130					135					140				
Asn	Leu	Arg	Glu	Ile	Gly	Ala	Ala	Ile	Gln	Lys	Phe	Val	Glu	Ala	Glu
145					150					155				160	
Gly	Phe	Ser	Val	Val	Arg	Glu	Tyr	Cys	Gly	His	Gly	Ile	Gly	Arg	Gly
			165					170					175		
Phe	His	Glu	Glu	Pro	Gln	Val	Leu	His	Tyr	Asp	Ser	Arg	Glu	Thr	Asn
		180					185						190		
Val	Val	Leu	Lys	Pro	Gly	Met	Thr	Phe	Thr	Ile	Glu	Pro	Met	Val	Asn
		195					200					205			
Ala	Gly	Lys	Lys	Glu	Ile	Arg	Thr	Met	Lys	Asp	Gly	Trp	Thr	Val	Lys
	210					215					220				
Thr	Lys	Asp	Arg	Ser	Leu	Ser	Ala	Gln	Tyr	Glu	His	Thr	Ile	Val	Val
225					230				235					240	
Thr	Asp	Asn	Gly	Cys	Glu	Ile	Leu	Thr	Leu	Arg	Lys	Asp	Asp	Thr	Ile
			245					250						255	
Pro	Ala	Ile	Ile	Ser	His	Asp	Glu								
			260												

<210> 2  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> primer

<400> 2  
 cgcgaggctc gatcccgca aattaatcg 30

<210> 3  
 <211> 57  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> primer

<400> 3  
 cttgattgag atagccatta tctccttctt aaagttaaac aaaattatct ctagagg 57

<210> 4  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> primer

<400> 4  
 ccggaagctt ttattcgctg tgcgagatta tcg 33

<210> 5  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> synthetic oligopeptide

<400> 5  
 Met Ala Asp Trp Leu Thr Phe Gln Lys Lys His Ile  
 1 5 10

<210> 6  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> synthetic oligopeptide

<400> 6  
 Met Gln Asp Trp Leu Thr Phe Gln Lys Lys His Ile  
 1 5 10

<210> 7  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> synthetic oligopeptide

<400> 7  
Met Ala Asp Tyr  
1

<210> 8  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> synthetic oligopeptide

<400> 8  
Met Ala Asp Tyr Leu Thr  
1 5

<210> 9  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> synthetic oligopeptide

<400> 9  
Met Gln Asp Tyr Leu Thr  
1 5

<210> 10  
<211> 5  
<212> PRT  
<213> Escherichia coli

<400> 10  
Met Gln Asp Trp Leu  
1 5

<210> 11  
<211> 5  
<212> PRT  
<213> Escherichia coli

<400> 11  
Met Gln Asp Trp Glu  
1 5

<210> 12  
<211> 5  
<212> PRT  
<213> Escherichia coli

<400> 12  
Met Gln Asp Trp Asp  
1 5

<210> 13  
<211> 5  
<212> PRT  
<213> Escherichia coli

<400> 13  
Met Gln Asp Trp Ala  
1 5

<210> 14  
<211> 5  
<212> PRT  
<213> Escherichia coli

<400> 14  
Met Gln Ala Trp Ala  
1 5

<210> 15  
<211> 5  
<212> PRT  
<213> Escherichia coli

<400> 15  
Met Ala Ala Trp Ala  
1 5

<210> 16  
<211> 5  
<212> PRT  
<213> Escherichia coli

<400> 16  
Met Ala Pro Trp Ala  
1 5

<210> 17  
<211> 5  
<212> PRT  
<213> Escherichia coli

<400> 17  
Met Gln Asn Trp Glu  
1 5

<210> 18  
<211> 5  
<212> PRT  
<213> Escherichia coli

<400> 18  
Met Gln Asn Trp Ala  
1 5

<210> 19  
<211> 5  
<212> PRT  
<213> Escherichia coli

<400> 19  
Met Gln Asp Trp Ala  
1 5

<210> 20  
<211> 5  
<212> PRT  
<213> Escherichia coli

<400> 20  
Met Leu Ala Gly Ala  
1 5

<210> 21  
<211> 5  
<212> PRT  
<213> Escherichia coli

<400> 21  
Met Gln Asp Ile Leu  
1 5